12.7mm Dia. 1064nm λ/2 Quartz Waveplate Zero Order

Stock **#85-045** CONTACT US

- 1 + A$755.20

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General

Type:
Crystalline Waveplate

Physical & Mechanical Properties

Clear Aperture CA (mm):
8.00

Diameter (mm):
12.70 +0.00/-0.25

Thickness (mm):
6.40 +0.00/-0.25

Construction:

Crystalline

Parallelism (arcsec):

<3

Optical Properties

Coating:

Laser V-Coat (1064nm)

Design Wavelength DWL (nm):

1064

Substrate:

Crystal Quartz

Retardance:

λ/2

Surface Quality:

10-5

Transmitted Wavefront, P-V:

λ/10 for central 80% of clear aperture

Retardance Tolerance:

±λ/200

Temperature Coefficient (λ/°C):

0.0001

Damage Threshold, By Design:

3.5 J/cm^2 @ 1064nm, 10ns

Retardance Order:

0

Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

View

Reach 240:

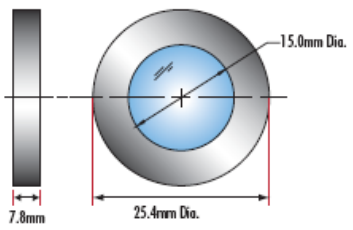
Compliant

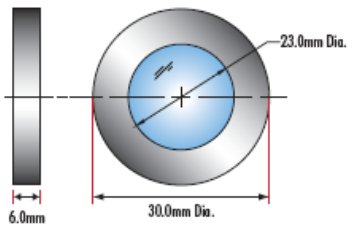
Product Details

- Zero Order and Multiple Order Waveplates
- λ/4 and λ/2 Retardance
- Mounted in Black Anodized Aluminum Frame
- **Zero Order Polymer Waveplates** Also Available

Quartz Waveplates (Retarders) are available in multiple order and zero order. These waveplates are ideal for a range of applications. Multiple order waveplates are ideal for applications where the wavelength deviates less than ±1% from the design wavelength of the waveplate. For applications with a greater than ±1% deviation, zero order waveplates are recommended due to their increased bandwidth and lower sensitivity to temperature change. Quartz Waveplates (Retarders) have the fast axis marked on the edge of the mount to ease system integration.

Technical Information





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